

10/52632A  
PATENT

DT01 Rec'd PCT/PT 28 FEB 2005

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Takayuki Imanaka et al.  
Int'l Application No. : PCT/IB2003/003597  
Int'l Filing Date : August 29, 2003  
Title : METHOD OF TARGETED GENE DISRUPTION, GENOME OF  
HYPERTHERMOSTABLE BACTERIUM AND GENOME CHIP  
USING THE SAME

Docket No. : 490051.401USPC  
Date : February 28, 2005

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

## Commissioner for Patents:

In accordance with 37 CFR 1.56 and 1.97 through 1.98, applicants wish to make known to the U.S. Patent and Trademark Office the references set forth on the attached Form PTO-1449. Copies of the cited U.S. patents and published patent applications are not required and accordingly have not been provided. Copies of all other cited references are enclosed. As to any reference cited, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 CFR 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Applicants believe this Information Disclosure Statement has been timely filed, however, the Director is authorized to charge any fee due by way of this Information Disclosure Statement to our Deposit Account No. 19-1090.

Respectfully submitted,

Seed Intellectual Property Law Group PLLC

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Enclosures:

Postcard  
Form PTO-1449  
Cited References (7)

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FORM PTO-1449 (REV 7-99)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 490051.401USPC	APPLICATION NO. <b>10/526324</b>
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS Takayuki Imanaka et al.	
		Int'l FILING DATE August 29, 2003	GROUP ART UNIT

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	5,807,522	09/15/98	Brown et al.	422	80	
AB						
AC						
AD						

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
				YES NO
AE				
AF				
AG				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AH	Fujiwara, S., et al., "The World of Archaea: Genome Analysis, Evolution and Thermostable Enzymes," <i>Gene</i> 179(1):165-170, November 7, 1996.
AI	Harborth, J., et al., "Identification of Essential Genes in Cultured Mammalian Cells Using Small Interfering RNAs," <i>J. Cell Sci.</i> 114(Pt 24):4557-4565, December 2001.
AJ	Hashimoto, Y., et al., "Disruption of Thermus Thermophilus Genes by Homologous Recombination Using a Thermostable Kanamycin-Resistant Marker," <i>FEBS Lett.</i> 506(3):231-234, October 12, 2001.
AK	Kawashima, T., et al., "Archaeal Adaptation to Higher Temperatures Revealed by Genomic Sequence of Thermoplasma Volcanium," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 97(26):14257-14262, December 19, 2000.
AL	Nakatani, M., et al., "A DNA Ligase from a Hyperthermophilic Archaeon with Unique Cofactor Specificity," <i>J. Bacteriol.</i> 182(22):6424-6433, November 2000.
AM	Nishioka, M., et al., "Characterization of Two Intein Homing Endonucleases Encoded in the DNA Polymerase Gene of <i>Pyrococcus kodakaraensis</i> strain KOD1," <i>Nucleic Acids Res.</i> 26(19):4409-4412, October 1, 1998.
AN	Takagi, M. et al., "Characterization of DNA Polymerase from <i>Pyrococcus</i> sp. Strain KOD1 and its Application to PCR," <i>Appl. Environ. Microbiol.</i> 63(11):4504-4510, November 1997.

EXAMINER /Nancy Vogel/	DATE CONSIDERED 12/17/2008
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\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).